Video Frame or Picture Encoding and Decoding

Abstract

5   A method for encoding a video frame or picture comprises
dividing up the video frame or the picture in portions of a
first type associated with a first scanning pattern, and
portions of a second type associated with a second scanning
pattern. Data corresponding to a predetermined of the portions
10 of the video frame or picture is transformed into a two-
dimensional transform coefficient array. Fhe transform
coefficients are precoded in order to obtain transform data
units. One of a first and a second set of context models is
chosen depending on as to whether the predetermined portion is
15 a portion of a type being associated with the first or the
second scanning pattern. One context model of the chosen one
of the first and the second set of context models is assigned
to the transform data unit based on the scanning position
assigned to the predetermined transform coefficient. Finally,
20 the transform data unit or a sub-unit thereof is
arithmetically encoded into a coded bit stream based on the
probability estimation with which the assigned context model
is associated.